

STIC Search Report

STIC Database Tracking Number: 151592

TO: James Dudek Location: JEF-4A55

Art Unit: 2871

Tuesday, April 26, 2005

Case Serial Number: 09/447900

From: Darcy Bates Location: EIC 2800

JEF-4B68

Phone: 571-272-2540

darcy.bates@uspto.gov

Search Notes

Re: 90/006,594 US 5,637,930

Attached are search results.

The only litigation found was the US patent interference # 104,372.

If more searching or explanation is needed, please let me know.

Thanks, Darcy Bates



SEARCH REQUEST F Rev. 3/15/2004 This is an exper	ORM Scientific and imental format Please give sugg	Technical Informati	on Center	- EIC2800 168, 272-2511.
Date 4/21/55 Serie				
Your Name James I	sudek '	Exam	ner# <u>718</u>	01
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In what format would you like	your results? Paper is the de	efault. PAPER	DISK	EMAIL
if submitting more than one The EiO searcher normally with a searcher for an intera	vill contact you before beg	inning a prior art searc	h. If you wo	uld like to alt
Where have you searched Circle: USPT	so far on this case?	s JPO Abs	IBM	TDB .
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Date Searcher Picked Up:	Fulltext	Lexis-Nexis		
Date Completed:	Patent Family	WWW/Internet		
Searcher Prep/Rev Time: Online Time:	Other	Other		
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IFW IMAGE

Secrecy Order: NO

Status Date: 03/15/2000

PALM INTRANET

Day : Monday Date: 4/25/2005 Time: 11:49:56

Application Number Information

Application Number: 09/447900 Assignments

Filing or 371(c) Date: 11/15/1999

Effective Date: 11/15/1999

Application Received: 11/15/1999

Patent Number:

Attorney Docket Number: 93SC024RE

Issue Date: 00/00/0000 Date of Abandonment: 00/00/0000

Status: 30 /DOCKETED NEW CASE - READY FOR EXAMINATION Confirmation Number: 4426

Lost Case: NO

Oral Hearing: NO

Group Art Unit: 2871

Interference Number:

Unmatched Petition: NO

L&R Code: Secrecy Code:1 Third Level Review: NO

Class/Subclass: 349/117.000

Examiner Number: 71801 / DUDEK, JAMES

Title of Invention: MONOLITHIC OPTICAL COMPENSATION DEVICE FOR IMPROVED VIEWING ANGLE IN LIQUID CRYSTAL

DISPLAYS

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
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	PCT //		PG PUBS#	Search		
	Attorney Docket	# <u> </u>	Search			
	Bar Code #	Search				

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PALM INTRANET Continuity Information for 09/447900

Day : Monday Date: 4/25/2005 Time: 11:50:08

Parent Data

09447900

is a reissue of <u>08313532</u>

Which is a continuation in part of <u>08223251</u>

Child Data

No Child Data

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PALM INTRANET

Day: Monday Date: 4/25/2005 Time: 11:50:52

Application Number Information

Application Number: 08/313532 Assignments

Filing or 371(c) Date: 09/30/1994 Effective Date: 09/30/1994 Application Received: 09/30/1994

Patent Number: 5612801 Issue Date: 03/18/1997

Date of Abandonment: 00/00/0000

Attorney Docket Number: 94CR110GGW

Status: 150 /PATENTED CASE

Confirmation Number: 2048

Examiner Number: 71801 / DUDEK, JAMES

Group Art Unit: 2871

Class/Subclass: 359/073.000

Lost Case: NO

Interference Number: Unmatched Petition: NO

L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 03/07/1997

Oral Hearing: NO

Title of Invention: MONOLITHIC OPTICAL COMPENSATION DEVICE FOR IMPROVED VIEWING ANGLE IN LIQUID CRYSTAL

DISPLAYS

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location		
08313532	28X1	05/01/2004	No Charge to Location	DUDEK, JAMES	INVENTORY,TWENTY7	JEF/04/A 55		
Appln Info Contents Petition Info Atty/Agent Info Continuity Data Foreign Data Inventors Address Fees Post Info Pro Grant Pub								
Search Another: Application# Search or Patent# Search								
	PCT/	/ Searc	or PG PUBS #	Search				
Attorney Docket # Search								
Bar Code # Search								

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Continuity Information for 08/313532

Day : Monday Date: 4/25/2005 Time: 11:51:04

Parent Data

08313532

is a continuation in part of 08223251

Child Data

09447900 is a reissue of 08313532

	24/5 is a continuation of <u>08313532</u>							
Appining	Contents Petition Info Atty/Agent Info	Continuity Data	Foreign@ala	(inventoris)	Address	(Pees	Rosilindo	Pro Gent Pub
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	Attorney Docket #	Search						
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PALM INTRANET

Day: Monday Date: 4/25/2005 Time: 11:51:12

Application Number Information

Application Number: 08/223251 Assignments

Filing or 371(c) Date: 04/04/1994 Effective Date: 04/04/1994 Application Received: 04/04/1994

Patent Number: <u>5504603</u> Issue Date: 04/02/1996

Date of Abandonment: 00/00/0000 Attorney Docket Number: 92SC088 Status: 150 /PATENTED CASE

Confirmation Number: 6785

Examiner Number: 71801 / DUDEK, JAMES

Group Art Unit: 2515 Class/Subclass: 359/073.000

Lost Case: NO Interference Number: Unmatched Petition: NO L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 03/22/1996

Oral Hearing: NO

Title of Invention: OPTICAL COMPENSATOR FOR IMPROVED GRAY SCALE PERFORMANCE IN LIQUID CRYSTAL DISPLAY

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
08223251	28X1	05/01/2004	No Charge to Location	DUDEK, JAMES	INVENTORY,TWENTY7	JEF/04/A 55
Appln Info	_Contents _ Petiti	on Info Atty/Age	nt info Continuity Data F	Foreign Data Inventors	Address Fees Post Info	Pre Grant Pub
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	PCT /	/ Searc	or PG PUBS #	Search		
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Day: Monday Date: 4/25/2005 Time: 11:51:23

PALM INTRANET Continuity Information for 08/223251

Parent Data No Parent Data

Child Data

08313476 is a continuation in part of <u>08223251</u>

08313510 is a continuation in part of <u>08223251</u>

08313531 is a continuation in part of 08223251

<u>08313532</u> is a continuation in part of <u>08223251</u>

08690033 is a continuation of 08313476

08947531 is a continuation of 08313531

09388131 is a division of 08947531

09447900 is a reissue of 08313532

ApplnInfo	«Contents»	PetitionInfo	Atty/AgentiInfo	Continuity	Data	Foreign Datas	Inventors	Address	Fees	Postimo	Prei
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PCT / Search or PG PUBS # Search Attorney Docket #

Bar Code # Search

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PALM INTRANET

Day : Monday Date: 4/25/2005 Time: 11:51:36

Application Number Information

Application Number: 08/313510 Order This File Assignments Examiner Number: 71884 / MALINOWSKI, WALTER

Filing or 371(c) Date: 09/30/1994

Effective Date: 09/30/1994

Application Received: 09/30/1994

Patent Number: <u>5638197</u> Issue Date: 06/10/1997

Date of Abandonment: 00/00/0000

Attorney Docket Number: 94CR109GGW Status: 150 /PATENTED CASE

Confirmation Number: 2024

Group Art Unit: 2515

Class/Subclass: 359/073.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO

L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 06/02/1997

Oral Hearing: NO

Title of Invention: INORGANIC THIN FILM COMPENSATOR FOR IMPROVED GRAY SCALE PERFORMANCE IN TWISTED

NEMATIC LIQUID CRYSTAL DISPLAYS AND METHOD OF MAKING

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
08313510	9200	11/15/2001	No Charge to Location	No Charge to Name	FOS UPDATE	
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Continuity Information for 08/313510

Day : Monday Date: 4/25/2005 Time: 11:51:53

Parent Data 08313510

Child Data
PCT/US95/12588 is a continuation of 08313510

is a continuation in part of <u>08223251</u>

Application Contents Pattion Life Ally Agent Life	Continuity Data	Foreign Data	Inventors	Address	Rees	Postblo	Pro Grant Pub
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PALM INTRANET

Day: Monday Date: 4/25/2005 Time: 11:52:07

Application Number Information

Application Number: 08/690033 Order This File Assignments Examiner Number: 71884 / MALINOWSKI, WALTER

Filing or 371(c) Date: 07/31/1996 Effective Date: 07/31/1996

Class/Subclass: 359/051.000

Application Received: 07/31/1996

Lost Case: NO

Patent Number: <u>5619352</u>

Interference Number:

Group Art Unit: 2515

Issue Date: 04/08/1997

Unmatched Petition: NO

Date of Abandonment: 00/00/0000

L&R Code: Secrecy Code:1

Attorney Docket Number: 94CR091C/GGW

Third Level Review: NO

Secrecy Order: NO Status Date: 03/28/1997

Status: 150 /PATENTED CASE Confirmation Number: 9449

Oral Hearing: NO

Title of Invention: SPLAY/TWIST COMPENSATOR HAVING VARYING TILT AND/OR AZIMUTHAL ANGLES FOR IMPROVED

GRAY SCALE PERFORMANCE

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location		
08690033	9200	05/12/2003	No Charge to Location	No Charge to Name	WASEEM,MOHAMMED			
Appln Info	Contents Petitio	nlinio Atty/Agen	tilinfo Continuity Dala For	eign@ata Inventors A	ddress Fees Post info Pa	Grant Pub		
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Continuity Information for 08/690033

Day : Monday Date: 4/25/2005 Time: 11:52:20

Parent Data

08690033

is a continuation of 08313476

Which is a continuation in part of 08223251

Child Data No Child Data

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Attorney Docket # Search

Bar Code # Search

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PALM INTRANET

Day: Monday Date: 4/25/2005 Time: 11:52:28

Application Number Information

Application Number: 08/947531 Order This File Assignments Examiner Number: 72587 / TON, MINH-TOAN

Filing or 371(c) Date: 07/30/1997

Effective Date: 07/30/1997

Application Received: 07/30/1997

Patent Number: 5986734

Issue Date: 11/16/1999

Date of Abandonment: 00/00/0000

Attorney Docket Number: 94CR107--

Status: 150 /PATENTED CASE

Group Art Unit: 2871

Class/Subclass: 349/123.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO

L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 11/08/1999

Oral Hearing: NO Confirmation Number: 6024

Title of Invention: ORGANIC POLYMER O-PLATE COMPENSATOR FOR IMPROVED GRAY SCALE PERFORMANCE IN

TWISTED NEMATIC LIQUID CRYSTAL DISPLAYS

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
08947531	9200	09/30/2003	No Charge to Location	No Charge to Name	BAIG,ARIF	
Appln Info	Contents Petition In	io (Atty/Agent/Info	Continuity Data Foreign Data	a Inventors Address	Fees Postinio P	re Grant Pub
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Continuity Information for 08/947531

Day : Monday Date: 4/25/2005 Time: 11:52:40

Parent Data

08947531

is a continuation of 08313531

Which is a continuation in part of <u>08223251</u>

Child Data

9388131 is a division of 08947531 Applin Info Contents Petition linfo Atty/Agent Info Continuity Data Foreign Data Inventors Address Fees Post Info Pre Grant Pub
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Attorney Docket # Search Search
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PALM INTRANET

Day : Monday Date: 4/25/2005 Time: 11:52:49

Application Number Information

Application Number: 09/388131 Order This File Assignments Examiner Number: 71884 / MALINOWSKI, WALTER

Group Art Unit: 3624

Filing or 371(c) Date: 09/01/1999 Effective Date: 09/01/1999

Class/Subclass: 349/117.000

Application Received: 09/01/1999

Lost Case: NO

Patent Number: 6320634

Interference Number:

Issue Date: 11/20/2001

Unmatched Petition: NO

Date of Abandonment: 00/00/0000

L&R Code: Secrecy Code:1

Attorney Docket Number: 71815/424(93

Status: 150 /PATENTED CASE

Third Level Review: NO

Secrecy Order: NO Status Date: 11/01/2001

Confirmation Number: 3439

Oral Hearing: NO

Title of Invention: ORGANIC POLYMER O-PLATE COMPENSATOR FOR IMPROVED GRAY SCALE PERFORMANCE IN

TWISTED NEMATIC LIQUID CRYSTAL DISPLAYS

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location	
09388131	9200	10/02/2003	No Charge to Location	No Charge to Name	KASAH,EMMANUEL		
Appln Info Contents Petition Info Atty/Agent Info Continuity Data Foreign Data Inventors Address Fees Post Info Pre Grant Pub							
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PCT / Search or PG PUBS # Search							
Attorney Docket # Search							
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Day: Monday Date: 4/25/2005 Time: 11:53:00

PALM INTRANETContinuity Information for 09/388131

Parent Data

09388131

is a division of <u>08947531</u>

Which is a continuation of <u>08313531</u>

Which is a continuation in part of <u>08223251</u>

Child Data

No Child Data

Application Contents Petition Info Atty/Agent/Info Continuity Data Foreign Data Inventors Address Fees	Postino Pre GentiPub
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Patent Search - Number: 5,612,801

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Patent Search - Number: 5,638,197

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Patent Search - Number: 5,619,352

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Terms: patno=5612801 (Edit Search)

313532 (08) 5612801 March 18, 1997

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5612801

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Link to Claims Section

March 18, 1997

Monolithic optical compensation device for improved viewing angle in liquid crystal displays

REEXAM-LITIGATE:

NOTICE OF LITIGATION

NOTICE OF LITIGATION Interference No. 104,372, final judgment adverse to the patentee rendered Nov. 23, 1999, as to claims 1-7. (O.G. Mar. 14, 2000)

REISSUE: Reissue Application filed Nov. 15, 1999 (O.G. Dec. 28,, (O.G. December 28, 1999)

INVENTOR: Winker, Bruce K. - Moorpark, California, United States (US)

APPL-NO: 313532 (08)

FILED-DATE: September 30, 1994

GRANTED-DATE: March 18, 1997

ASSIGNEE-AT-ISSUE: Rockwell Science Center, Inc., Thousand Oaks, California, United

States (US), 02

ASSIGNEE-AFTER-ISSUE: December 5, 1994 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., ROCKWELL INTERNATIONAL CORPORATION PATENT DEPARTMENT M/A 175-100 400 COLLINS ROAD N.E. CEDARD RAPIDS, IOWA 52498, Reel and

Frame Number: 07266/0645

LEGAL-REP: Williams, Gregory G.; Murrah, M. Lee; Montanye, George A.

PUB-TYPE: March 18, 1997 - Utility Patent having no previously published pre-grant

publication (A)

PUB-COUNTRY: United States (US)

REL-DATA:

Continuation-in-part of Ser. No. 08/223251, April 4, 1994, GRANTED 5504603

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Search statement 1

Query/Command : us5612801/pn

** SS 1: Results 1

Search statement 2

Query/Command : prt fu legalall max

1 / 1 PLUSPAT - @QUESTEL-ORBIT - image

PN - US5612801 A 19970318 [US5612801]

TI - (A) Monolithic optical compensation device for improved viewing angle in liquid crystal displays

PA - (A) ROCKWELL SCIENCE CENTER INC (US)

PAO - Rockwell Science Center, Inc., Thousand Oaks CA [US]

IN - (A) WINKER BRUCE K (US)

AP - US31353294 19940930 [1994US-0313532]

FD - C.I.P. of US223251 19940404 [1994US-0223251]

Continuation-in-part of: US5504603

PR - US31353294 19940930 [1994US-0313532] US22325194 19940404 [1994US-0223251]

IC - (A) G02F-001/1335

EC - G02B-005/30R

G02F-001/13363G

G02F-001/13363T

ICO - S02F-001/13363G2

PCL - ORIGINAL (O): 349119000; CROSS-REFERENCE (X): 349117000

DT - Corresponding document

CT - US4516837; US4533214; US4701028; US5184237; US5196953; US5311340; US5337174; US5344916; US5375006; EP0367288; EP0576342; JP5-157913; JP6-174920

Kahn, "The Molecular Physics of Liquid-Crystal Devices, " Physics Today, pp. 66-74, May 1982.

Macleod, "Structure-Related Optical Properties of Thin Films, " J. Vac. Sci. Technol. A, vol. 4, No. 3, pp. 418-422, 1986. (No Month).

Motohiro et al., "Thin Film Retardation Plate by Oblique Deposition, " Appl. Opt., vol. 28, No. 3, pp. 2466-2482, 1989. (No Month).

Emsworth, "Achromatic Retardation Layers Based on Anisotropic Polymer Networks, " Research Disclosure, No. 337, 1992, p. 411. (No Month).

STG - (A) United States patent

AB - A monolithic O-plate optical compensator device, in accordance with the invention, comprises a plurality of thin-film compensation layers which are deposited on a single substrate. As used herein, the term "monolithic" is meant to imply that the O-plate and other thin-film compensator layers are formed by depositing (e.g., via solvent casting or vacuum deposition) one layer on top of another layer; with or without the use of surface

modification treatments such as adhesion layers, alignment layers, and the like.

1 / 1 LGST - ©EPO

PN - US5612801 A 19970318 [US5612801]

AP - US31353294 19940930 [1994US-0313532]

ACT - 19941205 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: ROCKWELL INTERNATIONAL CORPORATION PATENT DEPARTME;

EFFECTIVE DATE: 19941024

19941205 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: WINKER, BRUCE K.; EFFECTIVE DATE: 19941024

19991228 US/RF-A

REISSUE APPLICATION FILED EFFECTIVE DATE: 19991115

20000314 US/DI-A

ADVERSE DECISION IN INTERFERENCE

EFFECTIVE DATE: 19991123

UP - 2003-22

1 / 1 CRXX - @CLAIMS/RRX

AN - 2823592

PN - 5,612,801 A 19970318 [US5612801]

PA - Rockwell Science Center Inc

PT - E (Electrical)

ACT - 19991123 ADVERSE DECISION

Issue Date of O.G.: 20000314 Adverse Decision Number: 104372

as to claims 1-7.

19991115 REISSUE REQUESTED Issue Date of O.G.: 19991228

Reissue Request Number: 09/447900

Examination Group responsible for Reissue process: 2872

UP - 1999-51

UACT- 2000-03-14

Search statement 2

Query/Command : fam us5612801/pn

1 Patent Groups
** SS 2: Results 17

Search statement 3

Query/Command : famstate nonstop

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1 / 17 PLUSPAT - @QUESTEL-ORBIT
PN - CN1118883 A 19960320 [CN1118883]
STG - (A) Unexamined application
       (A) Optical compensator for improved gray scale perfor mance in
       liquid crystal display
       (A) ROCKWELL INTERNATIONAL CORP (US)
PA -
       (A) WINKER BRUCE K (US); GUNNING III WILLIAM J (US); TABER
IN -
       DONALD B (US)
IC -
       (A) G02F-001/133
AP - CN95104573 19950403 [1995CN-0104573]
PR - US22325194 19940404 [1994US-0223251]
2 / 17 PLUSPAT - @QUESTEL-ORBIT
PN - DE69521548 D1 20010809 [DE69521548]
STG - (D1) Granted EP number in bulletin
OTI - (D1) Optische Kompensation zur verbesserten Graustufenanzeige in
Flüssigkristallanzeigen
PA - (D1) ROCKWELL INTERNAT CORP (US)
       (D1) GUNNING III (US); HALE LEONARD G (US); TABER DONALD B
IN -
       (US); WINKER BRUCE K (US)
IC - (D1) G02B-005/30 G02F-001/1335
PN2 - DE69521548 T2 20020418 [DE69521548]
STG2- (T2) Trans. Of EP patent
OTI2- (T2) Optische Kompensation zur verbesserten Graustufenanzeige in
Flüssigkristallanzeigen
PA2 - (T2) ROCKWELL INTERNAT CORP (US)
IN2 - (T2) GUNNING III (US); HALE LEONARD G (US); TABER DONALD B
       (US); WINKER BRUCE K (US)
      (T2) G02B-005/30 G02F-001/1335
IC2 -
AP - DE69521548 19950404 [1995DE-6021548]
PR -
       US22325194 19940404 [1994US-0223251]
UP -
       2001-32
1 / 2
       LEGALI - ©EPO
PN -
       DE69521548 D1 20010809 [DE69521548] DE69521548 T2 20020418
[DE69521548]
AP - DE69521548 19950404 [1995DE-6021548]
ACTE- 20020801 DE/8364-A [+]
       NO OPPOSITION DURING TERM OF OPPOSITION
UP - 2003-22
2 / 2
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       EP0676660 A1 19951011 [EP-676660]EP0676660 B1 20010704 [EP-676660]
PN -
AP -
       EP95105034 19950404 [1995EP-0105034]
ACTE-
       19951011 EP/AK-A [+]
        DESIGNATED CONTRACTING STATES:
        DE FR GB NL
        19960207 EP/17P-A [+]
        REQUEST FOR EXAMINATION FILED
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EFFECTIVE DATE: 19951212

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19980930 EP/170-A [+]
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       EFFECTIVE DATE: 19980814
        20010704 EP/AK-A [+]
        DESIGNATED CONTRACTING STATES:
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       20010809 EP/REF-A
       CORRESPONDS TO:
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        20011026 EP/ET-A [+]
       FR: TRANSLATION FILED
        20020101 EP/REG-A; GB/IF02 [+]
       GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
        <GR>
       20020626 EP/26N-A [+]
       NO OPPOSITION FILED
UP -
       2003-22
3 / 17 PLUSPAT - @QUESTEL-ORBIT
PN - EP0676660 A1 19951011 [EP-676660]
STG -
       (A1) Public. Of applic. With search report
        (A1) Optical compensator for improved gray scale performance in
       liquid crystal display.
       (A1) Optische Kompensation zur verbesserten Graustufenanzeige in
OTI -
Flüssigkristallanzeigen.
        (A1) Compensation optique pour affichage à niveaux de gris
       amélioré dans un afficheur à cristal liquide.
PA -
      (A1) ROCKWELL INTERNATIONAL CORP (US)
IN - (A1) GUNNING WILLIAM J III (US); HALE LEONARD G (US); TABER
       DONALD B (US); WINKER BRUCE K
                                      (US)
IC -
      (A1) G02B-005/30 G02F-001/1335
PN2 - EP0676660 B1 20010704 [EP-676660]
STG2-
      (B1) Patent
       (B1) Optical compensator for improved gray scale performance in
TI2 -
       liquid crystal display
       (B1) Optische Kompensation zur verbesserten Graustufenanzeige in
Flüssigkristallanzeigen
        (B1) Compensation optique pour affichage à niveaux de gris
       amélioré dans un afficheur à cristal liquide
       (B1) ROCKWELL INTERNAT CORP (US)
PA2 -
IN2 - (B1) GUNNING WILLIAM J III (US); HALE LEONARD G (US); TABER
       DONALD B (US); WINKER BRUCE K
                                      (US)
IC2 -
       (B1) G02B-005/30 G02F-001/1335
LA - ENGLISH (ENG)
AP - EP95105034 19950404 [1995EP-0105034]
PR -
       US22325194 19940404 [1994US-0223251]
EC -
       G02F-001/13363G
       G02F-001/13363T
ICO -
       S02F-001/13363G2
DS -
       DE FR GB NL
DT -
       Basic
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AP -
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       19951011 EP/AK-A [+]
ACTE-
        DESIGNATED CONTRACTING STATES:
        DE FR GB NL
        19960207 EP/17P-A [+]
        REQUEST FOR EXAMINATION FILED
        EFFECTIVE DATE: 19951212
        19980930 EP/17Q-A [+]
        FIRST EXAMINATION REPORT
        EFFECTIVE DATE: 19980814
        20010704 EP/AK-A [+]
        DESIGNATED CONTRACTING STATES:
        DE FR GB NL
        20010809 EP/REF-A
        CORRESPONDS TO:
        (DE 69521548 20010809 [DE69521548])
        20011026 EP/ET-A [+]
        FR: TRANSLATION FILED
        20020101 EP/REG-A; GB/IF02 [+]
        GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
        <GB>
        20020626 EP/26N-A [+]
       NO OPPOSITION FILED
UP -
       2003-22
4 / 17 PLUSPAT - @QUESTEL-ORBIT
PN - JP10507007 T 19980707 [JP10507007]
      (T) Unexam. Pat. Appl. On foreign appl.
      (T) G02B-005/30 G02F-001/1335 G02F-001/1337
IC -
AP - JP51204895T 19950928 [1995JP-0512048]
PR -
       WOUS9512497 19950928 [1995WO-US12497]
       US31353194 19940930 [1994US-0313531]
5 / 17
       PLUSPAT - @QUESTEL-ORBIT - image
PN -
        JP7306406 A 19951121 [JP07306406]
       (A) Doc. Laid open to publ. Inspec.
STG -
       (A) LIQUID CRYSTAL DISPLAY FOR OBSERVATION AT VARIOUS ANGLE WITH
TI -
        RESPECT TO NORMAL AXIS FORMING RIGHT ANGLE WITH DISPLAY
PA -
        (A) ROCKWELL INTERNATIONAL CORP
PA0 -
        (A) ROCKWELL INTERNATL CORP
        (A) BURUUSU KEI UINKAA; UIRIAMU JIEI GANINGU ZA SAADO; DONARUDO
        BII TEIBAA; REONARUDO JII HEIRU
        (A) WINKER BRUCE K; GUNNING III WILLIAM J; TABER DONALD B; HALE
INO -
        LEONARD G
       (A) G02F-001/133 G02F-001/1333 G02F-001/1335 G02F-001/1337
IC -
AP -
        JP7776095 19950403 [1995JP-0077760]
PR -
       US22325194 19940404 [1994US-0223251]
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PLUSPAT - @QUESTEL-ORBIT
6 / 17
PN - KR259762 B1 20000615 [KR-259762]
       (B1) Examined pat. App. (2nd pub.) B5
TI -
      (B1) LCD DEVICE
PA -
      (B1) ROCKWELL INTERNAT CORP (US)
      (B1) GUNNING III WILLIAM J (US); HALE LEONARD G (US); TABER
IN -
       DONALD B (US); WINKER BRUCE K (US)
       (B1) G02F-001/1335
TC -
       KR9507851 19950404 [1995KR-0007851]
AP -
PR -
       US22325194 19940404 [1994US-0223251]
UP -
       2001-08
7 / 17
       PLUSPAT - @QUESTEL-ORBIT
PN -
       TW494256 B 20020711 [TW-494256]
STG -
       (B) Patent
       (B) Optical compensator for improved gray scale performance in
TI -
       liquid crystal display
       (B) ROCKWELL INTERNAT CORP (US)
PA -
       (B) HALE LEONARD G (US); TABER DONALD B (US); WINKER BRUCE K
       (US); GUINNING WILLIAM J III (US)
       (B) G02F-001/13 G02F-001/133 G02F-001/1347
IC -
       TW84103214 19950401 [1995TW-0103214] US22325194 19940404 [1994US-0223251]
AP -
PR -
       2003-22
1 / 1
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PN -
AP -
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ACTE-
       20021105 TW/GD4A-A [+]
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UP - 2004-28
8 / 17 PLUSPAT - ©QUESTEL-ORBIT
PN - US5504603 A 19960402 [US5504603]
STG -
       (A) United States patent
       (A) Optical compensator for improved gray scale performance in
       liquid crystal display
PA -
        (A) ROCKWELL INTERNATIONAL CORP (US)
PA0 -
       Rockwell International Corporation, Seal Beach CA [US]
       (A) WINKER BRUCE K (US); GUNNING III WILLIAM J (US); TABER
TN -
       DONALD B (US); HALE LEONARD G
IC -
       (A) G02F-001/1335
AP - US22325194 19940404 [1994US-0223251]
PR - US22325194 19940404 [1994US-0223251]
EC - G02F-001/13363G
       G02F-001/13363T
ICO - S02F-001/13363G2
PCL - ORIGINAL (O) : 349117000
DT - Corresponding document
9 / 17
       PLUSPAT - @QUESTEL-ORBIT - image
       US5638197 A 19970610 [US5638197]
PN -
STG -
      (A) United States patent
TI - (A) Inorganic thin film compensator for improved gray scale
```

performance in twisted nematic liquid crystal displays and method

of making (A) ROCKWELL INTERNATIONAL CORP (US) PA -Rockwell International Corporation, Seal Beach CA [US] PA0 -(A) GUNNING III WILLIAM J (US); WINKER BRUCE K (US); TABER DONALD B (US); KOBRIN PAUL H (US); BEEDY JAMES C (US); EBLEN JR JOHN P (US) (A) G02F-001/1335 IC -US31351094 19940930 [1994US-0313510] AP -US31351094 19940930 [1994US-0313510] PR -US22325194 19940404 [1994US-0223251] G02B-005/30R EC -G02F-001/13363G G02F-001/13363T ICO -M23C-014/22D2 S02F-001/13363G2 ORIGINAL (O): 349096000; CROSS-REFERENCE (X): 349117000 PCL -DT - Corresponding document 1 / 1 LEGALI - ©EPO US5638197 A 19970610 [US5638197] AP -US31351094 19940930 [1994US-0313510] ACTE-19941205 US/AS02-A ASSIGNMENT OF ASSIGNOR'S INTEREST OWNER: ROCKWELL INTERNATIONAL CORPORATION PATENT DEPARTME; EFFECTIVE DATE: 19941021 19941205 US/AS02-A ASSIGNMENT OF ASSIGNOR'S INTEREST OWNER: GUNNING, WILLIAM J., III; EFFECTIVE DATE: 19941021 19941205 US/AS02-A ASSIGNMENT OF ASSIGNOR'S INTEREST OWNER: WINKER, BRUCE K.; EFFECTIVE DATE: 19941024 19941205 US/AS02-A ASSIGNMENT OF ASSIGNOR'S INTEREST OWNER: TABER, DONALD B.; EFFECTIVE DATE: 19941021 19941205 US/AS02-A ASSIGNMENT OF ASSIGNOR'S INTEREST OWNER: KOBRIN, PAUL H.; EFFECTIVE DATE: 19941021 2003-22 10 / 17 PLUSPAT - @QUESTEL-ORBIT - image PN - US5612801 A 19970318 [US5612801] (A) United States patent STG -(A) Monolithic optical compensation device for improved viewing TI angle in liquid crystal displays (A) ROCKWELL SCIENCE CENTER INC (US) PA -Rockwell Science Center, Inc., Thousand Oaks CA [US] PA0 -(A) WINKER BRUCE K (US) IN -IC -(A) G02F-001/1335 AP -US31353294 19940930 [1994US-0313532] US31353294 19940930 [1994US-0313532] US22325194 19940404 [1994US-0223251] PR -G02B-005/30R G02F-001/13363G G02F-001/13363T

ICO - S02F-001/13363G2

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ORIGINAL (O): 349119000; CROSS-REFERENCE (X): 349117000
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1 / 1
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PN -
        US5612801 A 19970318 [US5612801]
        US31353294 19940930 [1994US-0313532]
AP -
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        19941205 US/AS02-A
        ASSIGNMENT OF ASSIGNOR'S INTEREST
        OWNER: ROCKWELL INTERNATIONAL CORPORATION PATENT DEPARTME;
        EFFECTIVE DATE: 19941024
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        ASSIGNMENT OF ASSIGNOR'S INTEREST
        OWNER: WINKER, BRUCE K.; EFFECTIVE DATE: 19941024
        19991228 US/RF-A
        REISSUE APPLICATION FILED
        EFFECTIVE DATE: 19991115
        20000314 US/DI-A
        ADVERSE DECISION IN INTERFERENCE
        EFFECTIVE DATE: 19991123
        2003-22
IIP -
11 / 17 PLUSPAT - ©QUESTEL-ORBIT
       US6320634 B1 20011120 [US6320634]
STG -
        (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001
        (B1) Organic polymer O-plate compensator for improved gray scale
TI -
        performance in twisted nematic liquid crystal displays
        (B1) ROCKWELL INTERNAT CORP (US)
PA -
PAO -
        Rockwell International Corporation, Cedar Rapids IA [US]
        (B1) CHUNG YOUNG J (US); LI ZILI (US); RYANG HONG-SON (US);
IN -
        WINKER BRUCE K (US); ROSENBLATT CHARLES (US); WARREN JR LESLIE F
IC -
        (B1) G02F-001/1335
        US38813199 19990901 [1999US-0388131]
AP -
        US38813199 19990901 [1999US-0388131]
PR -
        US94753197 19970730 [1997US-0947531]
        US31353194 19940930 [1994US-0313531]
US22325194 19940404 [1994US-0223251]
        G02B-005/30L
        G02F-001/13363G
        G02F-001/13363T
ICO -
        S02F-001/13363G
        S02F-001/13363G2
PCL -
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DT -
       Corresponding document
TIP -
       2001-48
12 / 17 PLUSPAT - @QUESTEL-ORBIT - image
       US5619352 A 19970408 [US5619352]
STG -
        (A) United States patent
        (A) LCD splay/twist compensator having varying tilt and /or
TI -
        azimuthal angles for improved gray scale performance
        (A) ROCKWELL INTERNATIONAL CORP (US)
PA -
        Rockwell International Corporation, Seal Beach CA [US]
```

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(A) KOCH GENE C (US); WINKER BRUCE K (US); GUNNING III WILLIAM J
IN -
        (US)
        (A) G02F-001/13 G02F-001/1333 G02F-001/1335
IC -
AP -
       US69003396 19960731 [1996US-0690033]
PR -
       US69003396 19960731 [1996US-0690033]
       US31347694 19940930 [1994US-0313476]
       US22325194 19940404 [1994US-0223251]
       G02B-005/30L
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       G02F-001/13363G
       G02F-001/13363T
ICO -
       S02F-001/13363G2
        S02F-001/13363N
        ORIGINAL (O): 349089000; CROSS-REFERENCE (X): 349117000
PCL -
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DT -
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1 / 1
       LEGALI - ©EPO
       US5619352 A 19970408 [US5619352]
AP -
       US69003396 19960731 [1996US-0690033]
ACTE-
       20030116 US/AS-A
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        EFFECTIVE DATE: 20021206
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       LICENSING, LLC; REEL/FRAME: 013669/0052
        20030512 US/AS-A
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        OWNER: INNOVATIVE TECHNOLOGY LICENSING, LLC 1049 CAMINO D;
        EFFECTIVE DATE: 20010628
        CHANGE OF NAME; ASSIGNOR: ROCKWELL TECHNOLOGIES,
       LLC; REEL/FRAME: 014043/0798
        20030512 US/AS-A
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        OWNER: ROCKWELL SCIENCE CENTER, INC. 1049 CAMINO DOS RIOS;
       EFFECTIVE DATE: 19961115
       ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: ROCKWELL INTERNATIONAL
       CORPORATION; REEL/FRAME: 014051/0432
        20030512 US/AS-A
        ASSIGNMENT
        OWNER: ROCKWELL TECHNOLOGIES, LLC 1049 CAMINO DOS RIOSTHO;
        EFFECTIVE DATE: 20000330
        ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: ROCKWELL SCIENCE CENTER,
       LLC; REEL/FRAME: 014051/0437
        20030512 US/AS-A
        ASSIGNMENT
        OWNER: ROCKWELL SCIENCE CENTER LLC 1049 CAMINO DOS RIOSTH;
        EFFECTIVE DATE: 19970827
       MERGER; ASSIGNOR: ROCKWELL SCIENCE CENTER
       INC.; REEL/FRAME: 014051/0442
UP - 2005-03
13 / 17 PLUSPAT - @QUESTEL-ORBIT - image
PN - US5986734 A 19991116 [US5986734]
STG - (A) United States patent
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TI - (A) Organic polymer O-plate compensator for improved gray scale

performance in twisted nematic liquid crystal displays (A) ROCKWELL INTERNATIONAL CORP (US) PA -PAO - Rockwell International Corporation, Costa Mesa CA [US] IN - (A) WINKER BRUCE K (US); RYANG HONG-SON (US); WARREN JR LESLIE F (US); ROSENBLATT CHARLES (US); LI ZILI (US); CHUNG YOUNG J (US) (A) G02F-001/1335 G02F-001/1337 IC -**AP** - US94753197 19970730 [1997US-0947531] US94753197 19970730 [1997US-0947531] US31353194 19940930 [1994US-0313531] US22325194 19940404 [1994US-0223251] PR -EC -G02B-005/30L G02F-001/13363G ICO -S02F-001/13363G2 PCL - ORIGINAL (O): 349123000; CROSS-REFERENCE (X): 349117000 349124000 349127000 349130000 DT - Corresponding document 14 / 17 PLUSPAT - @QUESTEL-ORBIT - image **PN** - W09610768 A1 19960411 [W09610768] STG -(A1) Publ. Of int. Appl. With int. Search rep (A1) SPLAY/TWIST COMPENSATOR FOR IMPROVED GRAY SCALE PERFORMANCE TI -IN TWISTED NEMATIC LIQUID CRYSTAL DISPLAYS (A1) COMPENSATEUR DE CHANFREIN ET VRILLE AMELIORANT LE RENDEMENT DANS L'ECHELLE DES GRIS DES AFFICHEURS A CRISTAUX LIQUIDES NEMATIQUES TORSADES PA -(A1) ROCKWELL INTERNATIONAL CORP (US) PAO - ROCKWELL INTERNATIONAL CORPORATION ; 2201 Seal Beach Boulevard Seal Beach, CA 90740-8250 (US) IN - (A1) KOCH GENE C; WINKER BRUCE K; GUNNING WILLIAM J III **IC** - (A1) G02B-005/30 G02F-001/1335 LA - ENGLISH (ENG) AP - WOUS9512471 19950928 [1995WO-US12471] PR - US31347694 19940930 [1994US-0313476] **EC** - G02B-005/30L G02F-001/13363G G02F-001/13363T - CA; CN; JP; KR; MX; European Patent (AT; BE; CH; DE; DK; ES; FR; DS GB; GR; IE; IT; LU; MC; NL; PT; SE) DT -Basic 1 / 1 LEGALI - ©EPO W09610768 A1 19960411 [W09610768] WOUS9512471 19950928 [1995WO-US12471] 19960411 WO/AK [+] DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT CA CN JP KR MX 19960411 WO/AL [+] DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE 19960717 WO/121 EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN

19961010 WO/DFPE

THIS APPLICATION

REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE

19980121 WO/122 [-]

EP: PCT APP. NOT ENT. EUROP. PHASE

UP - 2003-22

15 / 17 PLUSPAT - @QUESTEL-ORBIT - image

PN - W09610769 A1 19960411 [W09610769]

STG - (A1) Publ. Of int. Appl. With int. Search rep

TI - (A1) MONOLITHIC OPTICAL COMPENSATION DEVICE FOR IMPROVED VIEWING ANGLE IN LIOUID CRYSTAL DISPLAYS

OTI - (A1) DISPOSITIF MONOLITHIQUE DE COMPENSATION OPTIQUE PERMETTANT D'AMELIORER L'ANGLE D'OBSERVATION DANS LES AFFICHEURS A CRISTAUX LIQUIDES

PA - (A1) ROCKWELL INTERNATIONAL CORP (US)

PAO - ROCKWELL INTERNATIONAL CORPORATION; 2201 Seal Beach Boulevard Seal Beach, CA 90740-8250 (US)

IN - (A1) WINKER BRUCE K

IC - (A1) G02B-005/30 G02F-001/1335

LA - ENGLISH (ENG)

AP - WOUS9512475 19950928 [1995WO-US12475]

PR - US31353294 19940930 [1994US-0313532]

EC - G02B-005/30R

G02F-001/13363G

DS - CA; CN; JP; KR; MX; European Patent (AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE)

DT - Basic

1 / 1 LEGALI - ©EPO

PN - W09610769 A1 19960411 [W09610769]

AP - WOUS9512475 19950928 [1995WO-US12475]

ACTE- 19960411 WO/AK [+]

DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT

CA CN JP KR MX

19960411 WO/AL [+]

DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED

APPLICATION WITH SEARCH REPORT

AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

19960717 WO/121

EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION

19961017 WO/DFPE

REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE

19980121 WO/122 [-]

EP: PCT APP. NOT ENT. EUROP. PHASE

UP - 2003-22

16 / 17 PLUSPAT - @QUESTEL-ORBIT - image

PN - W09610770 A1 19960411 [W09610770]

STG - (A1) Publ. Of int. Appl. With int. Search rep

- (A1) ORGANIC POLYMER O-PLATE COMPENSATOR FOR IMPROVED GRAY SCALE PERFORMANCE IN TWISTED NEMATIC LIQUID CRYSTAL DISPLAYS
- (A1) COMPENSATEUR A PLAQUE O EN POLYMERE ORGANIQUE DESTINE A OTT -AMELIORER LA PERFORMANCE DE L'ECHELLE DE GRIS DANS DES AFFICHEURS A CRISTAUX LIQUIDES NEMATIQUES EN HELICE
- (A1) ROCKWELL INTERNATIONAL CORP (US); WINKER BRUCE K (US); RYANG HONG SON (US); WARREN LESLIE F JR (US); ROSENBLATT CHARLES (US); LI ZILI (US); CHUNG YOUNG J (US)
- ROCKWELL INTERNATIONAL CORPORATION ; M/S 175-100, 400 Collins PA0 -Road, N.E. Cedar Rapids, IA 52498 (US) (Updated 1997-04) WINKER, Bruce, K.; 4438 Sugar Maple Court Moonpark, CA 93021 (US) (Updated 1997-04) RYANG, Hong-Son; 117 Encino Avenue Camarillo, CA 93010 (US)

(Updated 1997-04)

WARREN, Leslie, F., Jr.; 1902 La Ramada Drive Camarillo, CA 93012 (US) (Updated 1997-04)

ROSENBLATT, Charles; 24104 Woodway Road Beachwood, OH 44122 (US) (Updated 1997-04)

LI, Zili ; Apartment 232 142 W. Avenida de los Arboles Thousand Oaks, CA 91360 (US) (Updated 1997-04)

CHUNG, Young, J.; 3416 Stoneridge Court Calabasas, CA 91302 (US) (only US) (Updated 1997-04)

- (A1) WINKER BRUCE K (US); RYANG HONG-SON (US); WARREN LESLIE F IN JR (US); ROSENBLATT CHARLES (US); LI ZILI (US); CHUNG YOUNG J (US)
- (A1) G02B-005/30 G02F-001/1335 IC -

ENGLISH (ENG) LA -

AP -WOUS9512497 19950928 [1995WO-US12497]

US31353194 19940930 [1994US-0313531] PR -

EC -G02B-005/30L

G02F-001/13363G

- CA; CN; JP; KR; MX; European Patent (AT; BE; CH; DE; DK; ES; FR; DS GB; GR; IE; IT; LU; MC; NL; PT; SE)
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- 1 / 1 LEGALI - ©EPO
- WO9610770 A1 19960411 [WO9610770] PN -
- AP -WOUS9512497 19950928 [1995WO-US12497]

ACTE-19960411 WO/AK [+]

> DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT

CA CN JP KR MX US

19960411 WO/AL [+]

DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT

AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

19960717 WO/121

EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION

19961010 WO/DFPE

REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE

19970116 WO/CR1

CORRECTION OF ENTRY IN SECTION I

PAT.BUL.16/96 UNDER INID (81) "DESIGNATED STATES", DELETE "US"

19970116 WO/CFP

CORRECTED VERSION OF A PAMPHLET FRONT PAGE

19980121 WO/122 [-]

EP: PCT APP. NOT ENT. EUROP. PHASE

19980530 WO/NENP

NON-ENTRY INTO THE NATIONAL PHASE IN:

<CA>

UP - 2003-22

17 / 17 PLUSPAT - @QUESTEL-ORBIT - image

PN - W09610773 A1 19960411 [W09610773]

STG - (A1) Publ. Of int. Appl. With int. Search rep

TI - (A1) INORGANIC THIN FILM COMPENSATOR FOR IMPROVED GRAY SCALE PERFORMANCE IN TWISTED NEMATIC LIQUID CRYSTAL DISPLAYS

OTI - (A1) DISPOSITIF DE COMPENSATION COMPRENANT UN FILM MINERAL MINCE POUR AMELIORER L'ECHELLE DES GRIS DANS LES AFFICHAGES A CRISTAUX LIOUIDES A STRUCTURE NEMATIQUE TORSADEE

PA - (A1) ROCKWELL INTERNATIONAL CORP (US)

PAO - ROCKWELL INTERNATIONAL CORPORATION ; 2201 Seal Beach Boulevard Seal Beach, CA 90740-8250 (US)

IN - (A1) GUNNING WILLIAM J III; WINKER BRUCE K; TABER DONALD B; KORBIN PAUL H; BEEDY JAMES C; ELBEN JOHN P JR

IC - (A1) G02B-005/30 G02F-001/1335

LA - ENGLISH (ENG)

AP - WOUS9512588 19950928 [1995WO-US12588]

PR - US31351094 19940930 [1994US-0313510]

EC - G02B-005/30R

G02F-001/13363G

DS - CA; CN; JP; KR; MX; European Patent (AT; BE; CH; DE; DK; ES; FR;

GB; GR; IE; IT; LU; MC; NL; PT; SE)

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PN - W09610773 A1 19960411 [W09610773]

AP - WOUS9512588 19950928 [1995WO-US12588]

ACTE- 19960411 WO/AK [+]

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19960717 WO/121

EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION

19960906 WO/DFPE

REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE

19980114 WO/122 [-]

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